PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	I See Form PCT	/IDFA/416						
0309 PCT	FOR FURTHER ACTION SEE POINT FOITH EAST-10								
International application No.	International filing date (day/	month/year) P	Priority date (day/month/year)						
PCT/SE2004/001708	23.11.2004	2	6.11.2003						
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC								
D21C 9/147									
Applicant Kvaerner Pulping AB et al									
Avacinci ratping ab ec at									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This REPORT consists of a total	of 3 sheets, incl	luding this cover sh	eet.						
3. This report is also accompanied by ANNEXES, comprising:									
s (sant to the applicant	t and to the International Burea	mu) a total of	sheets, as follows:						
·			 ′						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
sheets which	supersede earlier sheets, but wi		considers contain an amendment that goes						
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
b. [_] (sent to the Internation	onal Bureau only) a total of (inc		* * * *						
form only, as indicat	ed in the Supplemental Box Re	sequence listing and elating to Sequence	d/or tables related thereto, in electronic Listing (see Section 802 of the						
Administrative Instra									
4. This report contains indications r	elating to the following items:								
Box No. I Basis o	of the report								
Box No. II Priorit	y		•						
Box No. III Non-es	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
Box No. IV Lack o	f unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial								
applicability; citations and explanations supporting such statement Box No. VI Certain documents cited									
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application									
Box No. VIII Certain	1 Oosel various on the internation	mar approacion							
Date of submission of the demand	Da	te of completion of	this report						
02.06.2005	. 09	9.11.2005							
Name and mailing address of the IPEA/SE		thorized officer							
Patent- och registreringsverket Box 5055									
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Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/SE2004/001708

Вох	No. I	Basis of the report					
1. With regard to the language, this report is based on:							
	\boxtimes	the international application in the language in which it was filed					
	a translation of the international application into which is the language of a translation furnished for the purposes of:						
		international search (Rules 12.3(a) and 23.1(b))					
		publication of the international application (Rule 12.4(a))					
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
	\boxtimes	the international application as originally filed/furnished					
		the description:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the claims:					
		pages as originally filed/furnished					
		pages* as amended (together with any statement) under Article 19					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the drawings:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
	Ш	a sequence listing and/or any related table(s) see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rui 70.2(c)).					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
		any anique of the sequence using (specify):					
*	If iten	n 4 applies, some or all of those sheets may be marked "superseded."					

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001708

Вох	No. V	Reasoned statement un citations and explanation	ider Article 3 ons supportin	35(2) with regard to novelty, inventive step or industrial applicabiliting such statement	ty;
1.	Statement				
	Novel	ty (N)	Claims Claims	1-9	YES
	Invent	tive step (IS)	Claims Claims	_1-9	YES NO
	Indust	trial applicability (IA)	Claims Claims	1-9	YES NO
			•		

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 5306391 A
D2: US 4419184 A
D3: US 4177105 A
D4: US 4840703 A
D5: US 6238517 B1

The cited documents represent the general state of the art. The invention defined in claims 1-9 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method and the claimed system for controlling the addition of oxygen gas and alkali to the oxygen gas delignification of cellulose pulp. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-9 is novel and is considered to involve an inventive step. The invention is industrially applicable.